

## **APPENDIX C**

### **Best Management Practices Report Filing**

**BMP 02 Coverage: Residential Plumbing Retrofit**

Reporting Unit:

Reporting Period:

**North Marin Water District****03-04****MOU Exhibit 1 Coverage Requirement**

No exemption request filed

Agency indicated "at least as effective as" implementation during report period?

No

An agency must meet one of three conditions to satisfy strict compliance for BMP 2.

Condition 1: The agency has demonstrated that 75% of SF accounts and 75% of MF units constructed prior to 1992 are fitted with low-flow showerheads.

Condition 2: An enforceable ordinance requiring the replacement of high-flow showerheads and other water use fixtures with their low-flow counterparts is in place for the agency's service area.

Condition 3: The agency has distributed or directly installed low-flow showerheads and other low-flow plumbing devices to not less than 10% of single-family accounts and 10% of multi-family units constructed prior to 1992 during the reporting period.

**Test for Condition 1**

Report Year	Report Period	Single-Family		Multi-Family	
		Reported Saturation	Saturation > 75%?	Reported Saturation	Saturation > 75%?
1999	99-00	40.00%	NO	40.00%	NO
2000	99-00	50.00%	NO	50.00%	NO
2001	01-02	55.00%	NO	55.00%	NO
2002	01-02	60.00%	NO	60.00%	NO
2003	03-04	50.00%	NO	65.00%	NO
2004	03-04	68.00%	NO	70.00%	NO
2005	05-06				
2006	05-06				

**Test for Condition 2**

Report Year	Report Period	North Marin Water District has ordinance requiring showerhead retrofit?
1999	99-00	NO
2000	99-00	YES
2001	01-02	YES
2002	01-02	YES
2003	03-04	YES
2004	03-04	YES
2005	05-06	
2006	05-06	

### Test for Condition 3

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Reporting Period: 03-04

<u>1992 SF</u> <u>Accounts</u>	<u>Num. Showerheads Distributed to</u> <u>SF Accounts</u>	<u>Single-Family</u> <u>Coverage Ratio</u>	<u>SF Coverage Ratio</u> <u>&gt; 10%</u>
15,448	2,400	15.5%	YES
<u>1992 MF</u> <u>Accounts</u>	<u>Num. Showerheads Distributed to</u> <u>MF Accounts</u>	<u>Multi-Family</u> <u>Coverage Ratio</u>	<u>MF Coverage</u> <u>Ratio &gt; 10%</u>
3,213	300	9.3%	NO

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### BMP 2 COVERAGE STATUS SUMMARY:

Water supplier is meeting coverage requirements for this BMP.

## BMP 03 Coverage: System Water Audits, Leak Detection and Repair

Reporting Unit:  
North Marin Water District

Reporting Period:  
03-04

### MOU Exhibit 1 Coverage Requirement

No exemption request filed

Agency indicated "at least as effective as" implementation during report period?

No

An agency must meet one of two conditions to be in compliance with BMP 3:

Condition 1: Perform a prescreening audit. If the result is equal to or greater than 0.9 nothing more needs be done.

Condition 2: Perform a prescreening audit. If the result is less than 0.9, perform a full audit in accordance with AWWA's Manual of Water Supply Practices, Water Audits, and Leak Detection.

### Test for Conditions 1 and 2

Report Year	Report Period	Pre-Screen Completed	Pre-Screen Result	Full Audit Indicated	Full Audit Completed
1999	99-00	YES	92.8%	No	NO
2000	99-00	YES	94.0%	No	NO
2001	01-02	YES	96.6%	No	NO
2002	01-02	YES	99.0%	No	NO
2003	03-04	YES	99.9%	No	NO
2004	03-04	YES	96.0%	No	NO
2005	05-06				
2006	05-06				

### BMP 3 COVERAGE STATUS SUMMARY:

Water supplier is meeting coverage requirements for this BMP.



**BMP 04 Coverage: Metering with Commodity Rates for  
all New Connections and Retrofit of Existing**

Reporting Unit:

**North Marin Water District**

Reporting Period:

**03-04**

**MOU Exhibit 1 Coverage Requirement**

No exemption request filed

Agency indicated "at least as effective  
as" implementation during report  
period?

No

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An agency must be on track to retrofit 100% of its unmetered accounts within 10  
years to be in compliance with BMP 4.

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**Test for Compliance**

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Total Meter Retrofits  
Reported through 2004

No. of Unmetered Accounts  
in Base Year

Meter Retrofit Coverage as  
% of Base Year Unmetered  
Accounts

Coverage Requirement by  
Year 2 of Implementation per  
Exhibit 1

10.0%

RU on Schedule to meet 10  
Year Coverage Requirement

YES

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**BMP 4 COVERAGE STATUS SUMMARY:**

**Water supplier is meeting coverage requirements for this BMP.**

## BMP 05 Coverage: Large Landscape Conservation Programs and Incentives

Reporting Unit:  
North Marin Water District

Reporting Period:  
03-04

### MOU Exhibit 1 Coverage Requirement

No exemption request filed

Agency indicated "at least as effective as" implementation during report period?

Yes

An agency must meet three conditions to comply with BMP 5.

Condition 1: Develop water budgets for 90% of its dedicated landscape meter accounts within four years of the date implementation is to start.

Condition 2: (a) Offer landscape surveys to at least 20% of its CII accounts with mixed use meters each report cycle and be on track to survey at least 15% of its CII accounts with mixed use meters within 10 years of the date implementation is to start OR (b) Implement a dedicated landscape meter retrofit program for CII accounts with mixed use meters or assign landscape budgets to mixed use meters.

Condition 3: Implement and maintain customer incentive program(s) for irrigation equipment retrofits.

#### Test for Condition 1

Year	Report Period	BMP 5 Implementation Year	No. of Irrigation Meter Accounts	No. of Irrigation Accounts with Budgets	Budget Coverage Ratio	90% Coverage Met by Year 4
1999	99-00					NA
2000	99-00		249			NA
2001	01-02		277			NA
2002	01-02		288	20	6.9%	NA
2003	03-04	1	301	28	9.3%	NA
2004	03-04	2	303	45	14.9%	NA
2005	05-06	3				NA
2006	05-06	4				No

#### Test for Condition 2a (survey offers)

Select Reporting Period:	03-04
Large Landscape Survey Offers as % of Mixed Use Meter CII Accounts	30.3%
Survey Offers Equal or Exceed 20% Coverage Requirement	YES

#### Test for Condition 2a (surveys completed)

Total Completed Landscape Surveys Reported through Credit for Surveys Completed Prior to Implementation of Reporting Database	22
Total + Credit	22

CII Accounts in Base Year	1,139
RU Survey Coverage as a % of Base Year CII Accounts	1.9%
Coverage Requirement by Year of Implementation per Exhibit 1	1.5%
RU on Schedule to Meet 10 Year Coverage Requirement	YES

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**Test for Condition 2b (mixed use budget or meter retrofit program)**

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Report Year	Report Period	BMP 5 Implementation Year	Agency has mix-use budget program	No. of mixed-use budgets
1999	99-00			
2000	99-00		NO	
2001	01-02		NO	
2002	01-02		YES	10
2003	03-04	1	YES	8
2004	03-04	2	YES	28
2005	05-06	3		
2006	05-06	4		

  

Report Year	Report Period	BMP 4 Implementation Year	No. of mixed use CII accounts	No. of mixed use CII accounts fitted with irrig. meters
1999	99-00		1,110	
2000	99-00		1,125	
2001	01-02		1,139	
2002	01-02		1,164	
2003	03-04	1	1,091	
2004	03-04	2	1,092	
2005	05-06	3		
2006	05-06	4		

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**Test for Condition 3**

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Report Year	Report Period	BMP 5 Implementation Year	RU offers financial incentives?	No. of Loans	Total Amt. Loans
1999	99-00				
2000	99-00		NO		
2001	01-02		NO		
2002	01-02		YES		
2003	03-04	1	YES		
2004	03-04	2	YES		
2005	05-06	3			
2006	05-06	4			

  

Report Year	Report Period	No. of Grants	Total Amt. Grants	No. of rebates	Total Amt. Rebates
1999	99-00				
2000	99-00				

2001	01-02
2002	01-02
2003	03-04
2004	03-04
2005	05-06
2006	05-06

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**BMP 5 COVERAGE STATUS SUMMARY:**

**Water supplier is meeting coverage requirements for this BMP.**

## BMP 06 Coverage: High-Efficiency Washing Machine Rebate Programs

Reporting Unit:  
North Marin Water District

Reporting Period:  
03-04

### MOU Exhibit 1 Coverage Requirement

No exemption request filed

Agency indicated "at least as effective as" implementation during report period? Yes

An agency must meet one condition to comply with BMP 6.

Condition 1: Offer a cost-effective financial incentive for high-efficiency washers if one or more energy service providers in service area offer financial incentives for high-efficiency washers.

#### Test for Condition 1

Year	Report Period	BMP 6 Implementation Year	Rebate Offered by ESP?	Rebate Offered by RU?	Rebate Amount
1999	99-00		YES	YES	75.00
2000	99-00		YES	YES	75.00
2001	01-02		YES	YES	75.00
2002	01-02		YES	YES	75.00
2003	03-04	1	YES	YES	150.00
2004	03-04	2	YES	YES	150.00
2005	05-06	3			
2006	05-06	4			

Year	Report Period	BMP 6 Implementation Year	No. Rebates Awarded	Coverage Met?
1999	99-00		382	YES
2000	99-00		136	YES
2001	01-02		217	YES
2002	01-02		133	YES
2003	03-04	1	550	YES
2004	03-04	2	598	YES
2005	05-06	3		
2006	05-06	4		

#### BMP 6 COVERAGE STATUS SUMMARY:

Water supplier is meeting coverage requirements for this BMP.

Reported as of 3/1/06

## **BMP 07 Coverage: Public Information Programs**

Reporting Unit:

**North Marin Water District**

Reporting Period:

**03-04**

### **MOU Exhibit 1 Coverage Requirement**

No exemption request filed

Agency indicated "at least as effective as" implementation during report period?

No

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An agency must meet one condition to comply with BMP 7.

Condition 1: Implement and maintain a public information program consistent with BMP 7's definition.

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#### **Test for Condition 1**

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<u>Year</u>	<u>Report Period</u>	<u>BMP 7 Implementation Year</u>	<u>RU Has Public Information Program?</u>
1999	99-00		
2000	99-00		YES
2001	01-02		YES
2002	01-02	1	YES
2003	03-04	2	YES
2004	03-04	3	YES
2005	05-06	4	
2006	05-06	5	

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#### **BMP 7 COVERAGE STATUS SUMMARY:**

**Water supplier is meeting coverage requirements for this BMP.**

Reported as of 3/1/06

## BMP 08 Coverage: School Education Programs

Reporting Unit:

**North Marin Water District**

Reporting Period:

**03-04**

### MOU Exhibit 1 Coverage Requirement

No exemption request filed

Agency indicated "at least as effective as" implementation during report period?

No

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An agency must meet one condition to comply with BMP 8.

Condition 1: Implement and maintain a school education program consistent with BMP 8's definition.

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#### Test for Condition 1

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<u>Year</u>	<u>Report Period</u>	<u>BMP 8 Implementation Year</u>	<u>RU Has School Education Program?</u>
1999	99-00		
2000	99-00		YES
2001	01-02		YES
2002	01-02	1	YES
2003	03-04	2	NO
2004	03-04	3	YES
2005	05-06	4	
2006	05-06	5	

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#### BMP 8 COVERAGE STATUS SUMMARY:

Water supplier has not met one or more coverage requirements for this BMP.

## BMP 09 Coverage: Conservation Programs for CII Accounts

Reporting Unit:

North Marin Water District

Reporting Period:

03-04

### MOU Exhibit 1 Coverage Requirement

No exemption request filed

Agency indicated "at least as effective as" implementation during report period?

Yes

An agency must meet three conditions to comply with BMP 9.

Condition 1: Agency has identified and ranked by use commercial, industrial, and institutional accounts.

Condition 2(a): Agency is on track to survey 10% of commercial accounts, 10% of industrial accounts, and 10% of institutional accounts within 10 years of date implementation to commence.

OR

Condition 2(b): Agency is on track to reduce CII water use by an amount equal to 10% of baseline use within 10 years of date implementation to commence.

OR

Condition 2(c): Agency is on track to meet the combined target as described in Exhibit 1 BMP 9 documentation.

### Test for Condition 1

Year	Report Period	BMP 9 Implementation Year	Ranked Com. Use	Ranked Ind. Use	Ranked Inst. Use
1999	99-00		NO	NO	NO
2000	99-00		YES	NO	YES
2001	01-02		YES	YES	YES
2002	01-02		YES	YES	YES
2003	03-04	1	YES	YES	YES
2004	03-04	2	YES	YES	YES
2005	05-06	3			
2006	05-06	4			

### Test for Condition 2a

	Commercial	Industrial	Institutional
Total Completed Surveys Reported through 2004	69	0	0
Credit for Surveys Completed Prior to Implementation of Reporting Databases			
Total + Credit	69		
CII Accounts in Base Year	1,037		102
RU Survey Coverage as % of Base Year CII Accounts	6.7%		
Coverage Requirement by Year 2 of Implementation per Exhibit 1	1.0%	1.0%	1.0%
RU on Schedule to Meet 10 Year			



Coverage Requirement	YES	NO	NO
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**Test for Condition 2b**


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Year	Report Period	BMP 9 Implementation Year	Performance Target Savings (AF/yr)	Performance Target Savings Coverage	Performance Target Savings Coverage Requirement	Coverage Requirement Met
1999	99-00					YES
2000	99-00					YES
2001	01-02					YES
2002	01-02					YES
2003	03-04	1	1	0.1%	0.5%	NO
2004	03-04	2	13	0.8%	1.0%	NO
2005	05-06	3			1.7%	NO
2006	05-06	4			2.4%	NO

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**Test for Condition 2c**


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Total BMP 9 Surveys + Credit	69
BMP 9 Survey Coverage	6.1%
BMP 9 Performance Target Coverage	0.8%
BMP 9 Survey + Performance Target Coverage	6.8%
Combined Coverage Equals or Exceeds Coverage Requirement?	YES

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**BMP 9 COVERAGE STATUS SUMMARY:**

**Water supplier is meeting coverage requirements for this BMP.**

**BMP 11 Coverage: Conservation Pricing**

Reporting Unit:  
**North Marin Water District**

Reporting  
 Period:  
**03-04**

**MOU Exhibit 1 Coverage Requirement**

No exemption request filed

Agency indicated "at least as effective as" implementation during report period?

No

An agency must meet one condition to comply with BMP 11.

Agency shall maintain rate structure consistent with BMP 11's definition of conservation pricing. Implementation methods shall be at least as effective as eliminating non-conserving pricing and adopting conserving pricing. For signatories supplying both water and sewer service, this BMP applies to pricing of both water and sewer service. Signatories that supply water but not sewer service shall make good faith efforts to work with sewer agencies so that those sewer agencies adopt conservation pricing for sewer service.

a) Non-conserving pricing provides no incentives to customers to reduce use. Such pricing is characterized by one or more of the following components: rates in which the unit price decreases as the quantity used increases (declining block rates); rates that involve charging customers a fixed amount per billing cycle regardless of the quantity used; pricing in which the typical bill is determined by high fixed charges and low commodity charges.

b) Conservation pricing provides incentives to customers to reduce average or peak use, or both. Such pricing includes: rates designed to recover the cost of providing service; and billing for water and sewer service based on metered water use. Conservation pricing is also characterized by one or more of the following components: rates in which the unit rate is constant regardless of the quantity used (uniform rates) or increases as the quantity used increases (increasing block rates); seasonal rates or excess-use surcharges to reduce peak demands during summer months; rates based upon the longrun marginal cost or the cost of adding the next unit of capacity to the system.

**Test for Condition 1**

Year	Report Period	RU Employed Conserving WATER Rate Structure	RU Employed Conserving SEWER Rate Structure	RU Meets BMP 11 Coverage Requirement
1999	99-00			
2000	99-00	YES	YES	YES
2001	01-02	YES	YES	YES
2002	01-02	YES	YES	YES
2003	03-04	YES	YES	YES
2004	03-04	YES	YES	YES
2005	05-06			
2006	05-06			

**BMP 11 COVERAGE STATUS SUMMARY:**

**Water supplier is meeting coverage requirements for this BMP.**

Reported as of 3/1/06

## **BMP 12 Coverage: Conservation Coordinator**

Reporting Unit:

**North Marin Water District**

Reporting Period:

**03-04**

### **MOU Exhibit 1 Coverage Requirement**

No exemption request filed

Agency indicated "at least as effective as" implementation during report period?

No

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Agency shall staff and maintain the position of conservation coordinator and provide support staff as necessary.

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### **Test for Compliance**

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<u>Report Year</u>	<u>Report Period</u>	<u>Conservation Coordinator Position Staffed?</u>	<u>Total Staff on Team (incl. CC)</u>
1999	99-00		
2000	99-00	YES	1
2001	01-02	YES	1
2002	01-02	YES	1
2003	03-04	YES	1
2004	03-04	NO	1
2005	05-06		
2006	05-06		

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### **BMP 12 COVERAGE STATUS SUMMARY:**

**Water supplier is meeting coverage requirements for this BMP.**

## BMP 13 Coverage: Water Waste Prohibition

Reporting Unit:

**North Marin Water District**

Reporting Period:

**03-04**

### MOU Exhibit 1 Coverage Requirement

No exemption request filed

Agency indicated "at least as effective as" implementation during report period?

No

An agency must meet one condition to comply with BMP 13.

Implementation methods shall be enacting and enforcing measures prohibiting gutter flooding, single pass cooling systems in new connections, non-recirculating systems in all new conveyer car wash and commercial laundry systems, and non-recycling decorative water fountains.

### Test for Condition 1

#### Agency or service area prohibits:

Year	Gutter Flooding	Single-Pass Cooling Systems	Single-Pass Car Wash	Single-Pass Laundry	Single-Pass Fountains	Other	RU has ordinance that meets coverage requirement
1999	YES	NO	NO	NO	NO	NO	NO
2000	YES	YES	YES	YES	YES	NO	YES
2001	YES	YES	YES	YES	YES	NO	YES
2002	YES	YES	YES	YES	YES	NO	YES
2003	YES	YES	YES	YES	YES	YES	YES
2004	YES	YES	YES	YES	YES	YES	YES
2005							
2006							

### BMP 13 COVERAGE STATUS SUMMARY:

**Water supplier is meeting coverage requirements for this BMP.**

## BMP 14 Coverage: Residential ULFT Replacement Programs

Reporting Unit: **North Marin Water District**

### MOU Exhibit 1 Coverage Requirement

A Reporting Unit (RU) must meet one of the following conditions to be in compliance with BMP 14.

Condition 1: Retrofit-on-resale (ROR) ordinance in effect in service area.

Condition 2: Water savings from toilet replacement programs equal to 90% of Exhibit 6 coverage requirement.

An agency with an exemption for BMP 14 is not required to meet one of the above conditions. This report treats an agency with missing base year data required to compute the Exhibit 6 coverage requirement as out of compliance with BMP 14.

**Status: Water supplier is meeting coverage requirements for this BMP. as of 2004**

Coverage Year	BMP 14 Data Submitted to CUWCC	Exemption Filed with CUWCC	ROR Ordinance in Effect	Exhibit 6 Coverage Req'mt (AF)	Toilet Replacement Program Water Savings* (AF)
2002	YES	NO	YES	85.14	60.79
2003	YES	NO	YES	191.72	116.12
2004	YES	NO	YES	301.29	194.19
2005	NO	NO	NO	408.61	
2006	NO	NO	NO	512.27	
2007	NO	NO	NO	611.99	
2008	NO	NO	NO	707.79	
2009	NO	NO	NO	799.80	
2010	NO	NO	NO	888.14	
2011	NO	NO	NO	972.98	

\*NOTE: Program water savings listed are net of the plumbing code. Savings are cumulative (not annual) between 1991 and the given year. Residential ULFT count data from unsubmitted forms are NOT included in the calculation.

### BMP 14 COVERAGE STATUS SUMMARY:

**Water supplier is meeting coverage requirements for this BMP.**

## BMP 14 Coverage: Residential ULFT Replacement Programs

Reporting Unit: North Marin Water District

### BMP 14 Coverage Calculation Detail: Retrofit on Resale (ROR) Ordinance Water Savings

	Single Family	Multi- Family
1992 Housing Stock		
Average rate of natural replacement (% of remaining stock)	.04	.04
Average rate of housing demolition (% of remaining stock)	.005	.005
Estimated Housing Units with 3.5+ gpf Toilets in 1997	10718.34	2229.29
Average resale rate		.7
Average persons per unit		
Average toilets per unit		
Average savings per home (gpd; from Exhibit 6)	47	51

#### Single Family Housing Units

Coverage Year	Unretrofitted Houses	Houses Sold	Houses Unsold	Sold and Retrofitted	Sold and Already Retrofitted	Unsold and Retrofitted	Gross ROR Savings (AFY)	Nat'l Replacement Only Savings (AFY)	Net ROR Savings (AFY)
2002	10291.75		10664.75			426.59	271.42	271.42	
2003	9882.14		10611.43			409.61	292.98	292.98	
2004	9488.83		10558.37			393.31	313.68	313.68	
2005	9111.17		10505.58			377.66	333.56	333.56	
2006	8748.55		10453.05			362.62	352.65	352.65	
2007	8400.36		10400.78			348.19	370.98	370.98	
2008	8066.02		10348.78			334.33	388.58	388.58	
2009	7745.00		10297.04			321.03	405.48	405.48	
2010	7436.75		10245.55			308.25	421.70	421.70	
2011	7140.76		10194.32			295.98	437.28	437.28	

#### Multi Family Housing Units

Coverage Year	Unretrofitted Houses	Houses Sold	Houses Unsold	Sold and Retrofitted	Sold and Already Retrofitted	Unsold and Retrofitted	Gross ROR Savings (AFY)	Nat'l Replacement Only Savings (AFY)	Net ROR Savings (AFY)
2002	649.97	1552.70	665.44	1552.70		26.62	146.40	61.26	85.14
2003	189.51	1544.94	662.12	452.70	1092.23	7.76	172.70	66.12	106.58
2004	55.25	1537.21	658.80	131.99	1405.22	2.26	180.37	70.80	109.57
2005	16.11	1529.52	655.51	38.48	1491.04	0.66	182.60	75.28	107.32
2006	4.70	1521.88	652.23	11.22	1510.66	0.19	183.25	79.59	103.66
2007	1.37	1514.27	648.97	3.27	1511.00	0.06	183.44	83.73	99.72
2008	0.40	1506.70	645.73	0.95	1505.74	0.02	183.50	87.70	95.80
2009	0.12	1499.16	642.50	0.28	1498.88	0.00	183.52	91.51	92.00
2010	0.03	1491.67	639.29	0.08	1491.59	0.00	183.52	95.17	88.35
2011	0.01	1484.21	636.09	0.02	1484.18	0.00	183.52	98.69	84.83

# NMWD APPROVED LIST FOR HIGH-EFFICIENCY TOILETS

**\$150 Rebate** (or up to retail cost, whichever is less)

*Effective January 1, 2006 (updated quarterly)*

High-Efficiency Toilets (HETs) use an average of at least 20% less water than a standard 1.6 gallon per flush (gpf) toilet.

			Type	(gpf)		Type	(gpf)
American Std.	Flowise EL	2073.013: 4023 (t) / 3018 (b)	GF	1.28	Gerber	Ultra Dual-Flush	DF-21-311 EL
Capizzi	Turbo-High Profile	1578 (t) / 0478 (b)	PA	1.1	Gerber	Ultra Dual-Flush	DF-21-312 EL
Capizzi	Turbo-Low Profile	1513 (t) / 0478 (b)	PA	1.1	Gerber	Ultra Dual-Flush	DF-21-314 EL
Capizzi	Turbo-Low Profile	1513 (t) / 0441 ADA EL (b)	PA	1.1	Gerber	Ultra Dual-Flush	DF-21-317 ADA EL
Caroma	Caravelle	989646 (1-piece toilet)	DF	0.8/1.6	Gerber	Ultra Dual-Flush	DF-21-318 ADA EL
Caroma	Caravelle 270	989760: 629435 (t) / 609159 (b)	DF	0.8/1.6	Gerber	Ultra Dual-Flush	DF-21-324 ADA EL
Caroma	Caravelle 270 ADA	989770: 687180 (t) / 609177 (b)	DF	0.8/1.6	Gerber	Ultra Dual-Flush	DF-21-325-ADA EL (back outlet)
Caroma	Caravelle 305	989680: 629435 (t) / 609151 (b)	DF	0.8/1.6	Kohler	Sterling Karsten	402028 EL: 402023 (t) / 402026 (b)
Caroma	Reflections 270	989720: 629530 (t) / 609159 (b)	DF	0.8/1.6	Kohler	San Raphael Power Lite	K-3398 (1-piece toilet)
Caroma	Royale 305	624530 (t) / 609151 (b)	DF	0.8/1.6	Mansfield	Eco-Quantum	146-119
Caroma	Royale 305 EL ADA	629530 (t) / 609130 (b)	DF	0.8/1.6	Mansfield	Eco-Quantum	147-119
Caroma	Tasman 270	989860	DF	0.8/1.6	Mansfield	Eco-Quantum	148-119 ADA EL
Duravit	Happy D RF	017009 (b) / 091000-05 (t)	DF	0.8/1.5	Mansfield	Eco-Quantum	146-119 RH RF
Duravit	Happy D Wallmount	017109 (b) / 111-335 (t) (concealed)	DF	0.8/1.5	Mansfield	Eco-Quantum	147-119 RH EL
Gerber	Ultra Flush	EF-21-302 RF	PA	1.1	Mansfield	Eco-Quantum	148-119 RH ADA EL
Gerber	Ultra Flush	EF-21-304 RF	PA	1.1	Mansfield	QuantumOne	146-153 RF
Gerber	Ultra Flush	EF-21-311 EL	PA	1.1	Mansfield	QuantumOne	148-153 ADA EL
Gerber	Ultra Flush	EF-21-312 EL	PA	1.1	Mansfield	QuantumOne	147-153 EL
Gerber	Ultra Flush	EF-21-314 EL	PA	1.1	Pegasus	Tulip	3904-02-E ADA EL
Gerber	Ultra Flush	EF-21-317 ADA EL	PA	1.1	Toto	Aquia	CST414MP EL
Gerber	Ultra Flush	EF-21-318 ADA EL	PA	1.1	Vitra	Dual Flush	5076-xxx-0075 - 5055-xxx-5137
Gerber	Ultra Flush	EF-21-324 ADA EL	PA	1.1	Vitra	Dual Flush Comfort EL	5074-xxx-0075 - 5055-xxx-5137
Gerber	Ultra Flush	EF-21-325 ADA EL (back outlet)	PA	1.1	Vortens	Vienna	3208 - 3420 RF
Gerber	Ultra Dual-Flush	DF-21-302 RF	DF	1.1/1.6	Vortens	Rhodas EL ADA	3123 (b) / 3433 (t)
Gerber	Ultra Dual-Flush	DF-21-304 RF	DF	1.1/1.6	Vortens	Tornado	3138-3468 EL

\* Based upon flush volumes as certified and reported by the manufacturer. NMWD makes no guarantee that the listed fixtures do, in fact, perform at the flush volumes noted or certified. It is the responsibility of the reader to verify the flush volumes (Consult the CUWCC website [www.cuwcc.org/products\\_tech\\_lasso](http://www.cuwcc.org/products_tech_lasso)) for water savings information and flush performance.

## Accounts & Water Use

Reporting Unit Name:  
North Marin Water District

Submitted to  
CUWCC  
03/14/2005

Year:  
2004

### A. Service Area Population Information:

1. Total service area population 57000

### B. Number of Accounts and Water Deliveries (AF)

Type	Metered		Unmetered	
	No. of Accounts	Water Deliveries (AF)	No. of Accounts	Water Deliveries (AF)
1. Single-Family	17169	7549	0	0
2. Multi-Family	628	730	0	0
3. Commercial	1067	1179	0	0
4. Industrial	0	0	0	0
5. Institutional	112	279	0	0
6. Dedicated Irrigation	351	1347	0	0
7. Recycled Water	0	0	0	0
8. Other	103	193	0	0
9. Unaccounted	NA	0	NA	0
<b>Total</b>	<b>19430</b>	<b>11277</b>	<b>0</b>	<b>0</b>
	<b>Metered</b>		<b>Unmetered</b>	



## BMP 01: Water Survey Programs for Single-Family and Multi-Family Residential Customers

Reporting Unit: **North Marin Water District**      BMP Form Status: **100% Complete**      Year: **2004**

### A. Implementation

- |  |            |
|--|------------|
| 1. Based on your signed MOU date, 07/05/2001, your Agency STRATEGY DUE DATE is:  | 07/05/2003 |
| 2. Has your agency developed and implemented a targeting/marketing strategy for SINGLE-FAMILY residential water use surveys? | yes        |
| a. If YES, when was it implemented?  | 09/20/1999 |
| 3. Has your agency developed and implemented a targeting/marketing strategy for MULTI-FAMILY residential water use surveys?  | yes        |
| a. If YES, when was it implemented?  | 09/20/1999 |

### B. Water Survey Data

Survey Counts:	Single Family Accounts	Multi-Family Units
1. Number of surveys offered:	16500	1100
2. Number of surveys completed:	303	30

### Indoor Survey:

- |   |     |     |
|---|-----|-----|
| 3. Check for leaks, including toilets, faucets and meter checks   | yes | yes |
| 4. Check showerhead flow rates, aerator flow rates, and offer to replace or recommend replacement, if necessary   | yes | yes |
| 5. Check toilet flow rates and offer to install or recommend installation of displacement device or direct customer to ULFT replacement program, as necessary; replace leaking toilet flapper, as necessary | yes | yes |

### Outdoor Survey:

- |  |                |     |
|--|----------------|-----|
| 6. Check irrigation system and timers  | yes            | no  |
| 7. Review or develop customer irrigation schedule  | yes            | no  |
| 8. Measure landscaped area (Recommended but not required for surveys)  | yes            | no  |
| 9. Measure total irrigable area (Recommended but not required for surveys)   | yes            | no  |
| 10. Which measurement method is typically used (Recommended but not required for surveys)                                | Odometer Wheel |     |
| 11. Were customers provided with information packets that included evaluation results and water savings recommendations? | yes            | no  |
| 12. Have the number of surveys offered and completed, survey results, and survey costs been tracked?                     | yes            | yes |
| a. If yes, in what form are surveys tracked?   | database       |     |
| b. Describe how your agency tracks this information.   |                |     |

Excel database

### C. Water Survey Program Expenditures

	This Year	Next Year
1. Budgeted Expenditures	0	0
2. Actual Expenditures	0	

### D. "At Least As Effective As"

1. Is your AGENCY implementing an "at least as effective as" variant of this BMP? yes

a. If YES, please explain in detail how your implementation of this BMP differs from Exhibit 1 and why you consider it to be "at least as effective as."

Cash for Grass: The District rebated 34 Cash for Grass projects for a total of 35,000 square feet of lawn removed and replaced with drought tolerant plant material. c) The District also requires no more than 800 feet squared of lawn can be installed in new development and requires that drip systems be installed in all non-truf plant landscape areas

### E. Comments

A)198, indoor audits were completed, with irrigation scheduling information given. 105 full scale indoor/outdoor water surveys were completed. B) Program Expenditures not shown since they are funded by water wholesaler (Sonoma County Water Agency)

**BMP 02: Residential Plumbing Retrofit**

Reporting Unit:

**North Marin Water District**

BMP Form Status:

**100% Complete**

Year:

**2004****A. Implementation**

1. Is there an enforceable ordinance in effect in your service area requiring replacement of high-flow showerheads and other water use fixtures with their low-flow counterparts? yes

a. If YES, list local jurisdictions in your service area and code or ordinance in each:

Novato and West Marin Service areas both have a retrofit on resale regulation for all homes sold in each service area.

2. Has your agency satisfied the 75% saturation requirement for single-family housing units? no

3. Estimated percent of single-family households with low-flow showerheads: 68%

4. Has your agency satisfied the 75% saturation requirement for multi-family housing units? no

5. Estimated percent of multi-family households with low-flow showerheads: 70%

6. If YES to 2 OR 4 above, please describe how saturation was determined, including the dates and results of any survey research.

**B. Low-Flow Device Distribution Information**

1. Has your agency developed a targeting/ marketing strategy for distributing low-flow devices? yes

a. If YES, when did your agency begin implementing this strategy? 09/20/1999

b. Describe your targeting/ marketing strategy.

Movie Theatre advertisement slides Community Access Television spots

Low-Flow Devices Distributed/ Installed	SF Accounts	MF Units
2. Number of low-flow showerheads distributed:	1200	200
3. Number of toilet-displacement devices distributed:	0	0
4. Number of toilet flappers distributed:	190	0
5. Number of faucet aerators distributed:	1500	500
6. Does your agency track the distribution and cost of low-flow devices?		yes
a. If YES, in what format are low-flow devices tracked?		Spreadsheet
b. If yes, describe your tracking and distribution system :		

We track who receives fixtures through a excel spreadsheet

**C. Low-Flow Device Distribution Expenditures**

	This Year	Next Year
1. Budgeted Expenditures	0	0
2. Actual Expenditures	0	

**D. "At Least As Effective As"**

1. Is your AGENCY implementing an "at least as effective as" variant of this BMP? No

a. If YES, please explain in detail how your implementation of this BMP differs from Exhibit 1 and why you consider it to be "at least as effective as."

**E. Comments**

Expenditures funded by SCWA

**BMP 03: System Water Audits, Leak Detection and Repair**

Reporting Unit:

BMP Form Status:

Year:

**North Marin Water District****100% Complete****2004****A. Implementation**

1. Has your agency completed a pre-screening system audit for this reporting year? yes
2. If YES, enter the values (AF/Year) used to calculate verifiable use as a percent of total production:
  - a. Determine metered sales (AF) 11007
  - b. Determine other system verifiable uses (AF) 36
  - c. Determine total supply into the system (AF) 11505
  - d. Using the numbers above, if (Metered Sales + Other Verifiable Uses) / Total Supply is < 0.9 then a full-scale system audit is required. 0.96
3. Does your agency keep necessary data on file to verify the values used to calculate verifiable uses as a percent of total production? yes
4. Did your agency complete a full-scale audit during this report year? no
5. Does your agency maintain in-house records of audit results or the completed AWWA audit worksheets for the completed audit? yes
6. Does your agency operate a system leak detection program? yes
  - a. If yes, describe the leak detection program:

All leaks repaired within 72 hours

**B. Survey Data**

1. Total number of miles of distribution system line. 283
2. Number of miles of distribution system line surveyed. 283

**C. System Audit / Leak Detection Program Expenditures**

	This Year	Next Year
1. Budgeted Expenditures	591000	555000
2. Actual Expenditures	491000	

**D. "At Least As Effective As"**

1. Is your AGENCY implementing an "at least as effective as" variant of this BMP? No
  - a. If YES, please explain in detail how your implementation of this BMP differs from Exhibit 1 and why you consider it to be "at least as effective as."

**E. Comments**

## **BMP 04: Metering with Commodity Rates for all New Connections and Retrofit of Existing**

Reporting Unit: **North Marin Water District**      BMP Form Status: **100% Complete**      Year: **2004**

### **A. Implementation**

1. Does your agency require meters for all new connections and bill by volume-of-use? yes
2. Does your agency have a program for retrofitting existing unmetered connections and bill by volume-of-use? no
  - a. If YES, when was the plan to retrofit and bill by volume-of-use existing unmetered connections completed?
  - b. Describe the program:
3. Number of previously unmetered accounts fitted with meters during report year. 0

### **B. Feasibility Study**

1. Has your agency conducted a feasibility study to assess the merits of a program to provide incentives to switch mixed-use accounts to dedicated landscape meters? no
  - a. If YES, when was the feasibility study conducted? (mm/dd/yy)
  - b. Describe the feasibility study:
2. Number of CII accounts with mixed-use meters. 1092
3. Number of CII accounts with mixed-use meters retrofitted with dedicated irrigation meters during reporting period. 0

### **C. Meter Retrofit Program Expenditures**

	<b>This Year</b>	<b>Next Year</b>
1. Budgeted Expenditures	0	0
2. Actual Expenditures	0	

### **D. "At Least As Effective As"**

1. Is your AGENCY implementing an "at least as effective as" variant of this BMP? No
  - a. If YES, please explain in detail how your implementation of this BMP differs from Exhibit 1 and why you consider it to be "at least as effective as."

### **E. Comments**

## BMP 05: Large Landscape Conservation Programs and Incentives

Reporting Unit:  
**North Marin Water  
 District**

BMP Form Status:  
**100% Complete**

Year:  
**2004**

### A. Water Use Budgets

- |  |     |
|--|-----|
| 1. Number of Dedicated Irrigation Meter Accounts:  | 303 |
| 2. Number of Dedicated Irrigation Meter Accounts with Water Budgets:                       | 45  |
| 3. Budgeted Use for Irrigation Meter Accounts with Water Budgets (AF):                     | 313 |
| 4. Actual Use for Irrigation Meter Accounts with Water Budgets (AF):                       | 356 |
| 5. Does your agency provide water use notices to accounts with budgets each billing cycle? | yes |

### B. Landscape Surveys

- |  |            |
|--|------------|
| 1. Has your agency developed a marketing / targeting strategy for landscape surveys?   | yes        |
| a. If YES, when did your agency begin implementing this strategy?  | 04/01/2000 |
| b. Description of marketing / targeting strategy:  |            |
| <p>Letters were sent out to Fireman's Fund, Valley Memorial Cemetery, City of Novato, and Novato Unified School District offering the audit. Audits were also offered to a number of HOAs throughout the service area.</p> |            |
| 2. Number of Surveys Offered.  | 300        |
| 3. Number of Surveys Completed.  | 22         |
| 4. Indicate which of the following Landscape Elements are part of your survey:   |            |
| a. Irrigation System Check   | yes        |
| b. Distribution Uniformity Analysis  | yes        |
| c. Review / Develop Irrigation Schedules   | yes        |
| d. Measure Landscape Area  | yes        |
| e. Measure Total Irrigable Area  | yes        |
| f. Provide Customer Report / Information   | yes        |
| 5. Do you track survey offers and results?   | yes        |
| 6. Does your agency provide follow-up surveys for previously completed surveys?  | yes        |
| a. If YES, describe below:   |            |

Survey has been developed but not disbursed to participants yet.

### C. Other BMP 5 Actions

- |  |     |
|--|-----|
| 1. An agency can provide mixed-use accounts with ETo-based landscape budgets in lieu of a large landscape survey program.<br>Does your agency provide mixed-use accounts with landscape budgets? | yes |
| 2. Number of CII mixed-use accounts with landscape budgets.  | 28  |
| 3. Do you offer landscape irrigation training?   | yes |

4. Does your agency offer financial incentives to improve landscape water use efficiency? yes

Type of Financial Incentive:	Budget (Dollars/Year)	Number Awarded to Customers	Total Amount Awarded
a. Rebates	0	0	0
b. Loans	0	0	0
c. Grants	0	0	0

5. Do you provide landscape water use efficiency information to new customers and customers changing services? yes

a. If YES, describe below:

Customers receive an information booklet regarding water conservation when they sign up for service.

6. Do you have irrigated landscaping at your facilities? yes

a. If yes, is it water-efficient? yes

b. If yes, does it have dedicated irrigation metering? yes

7. Do you provide customer notices at the start of the irrigation season? yes

8. Do you provide customer notices at the end of the irrigation season? yes

#### D. Landscape Conservation Program Expenditures

	This Year	Next Year
1. Budgeted Expenditures	0	0
2. Actual Expenditures	0	

#### E. "At Least As Effective As"

1. Is your AGENCY implementing an "at least as effective as" variant of this BMP? yes

a. If YES, please explain in detail how your implementation of this BMP differs from Exhibit 1 and why you consider it to be "at least as effective as."

The District Regulation 15 requires new CII accounts to install drought tolerant plant material and subsurface irrigation for all non-turf areas and requires that no turf be installed.

#### F. Comments

A) 6 Audits were completed which involved 22 accounts. A consultant was hired to complete the audits.



## BMP 06: High-Efficiency Washing Machine Rebate Programs

Reporting Unit:

North Marin Water District

BMP Form Status:

100% Complete

Year:

2004

### A. Implementation

1. Do any energy service providers or waste water utilities in your service area offer rebates for high-efficiency washers? yes

a. If YES, describe the offerings and incentives as well as who the energy/waste water utility provider is.

Pacific Gas and Electric has an "off and on" rebate program for the washers which is usually \$75 per washer.

2. Does your agency offer rebates for high-efficiency washers? yes
3. What is the level of the rebate? 150
4. Number of rebates awarded. 598

### B. Rebate Program Expenditures

	This Year	Next Year
1. Budgeted Expenditures	0	0
2. Actual Expenditures	0	

### C. "At Least As Effective As"

1. Is your AGENCY implementing an "at least as effective as" variant of this BMP? yes

a. If YES, please explain in detail how your implementation of this BMP differs from Exhibit 1 and why you consider it to be "at least as effective as."

NMWD requires all new construction to install front loading/horizontal axis washing machines.

### D. Comments

Program expenditures not shown since they are funded by water wholesaler (Sonoma County Water Agency)

**BMP 07: Public Information Programs**

Reporting Unit:

**North Marin Water District**

BMP Form Status:

**100% Complete**

Year:

**2004****A. Implementation**

1. Does your agency maintain an active public information program to promote and educate customers about water conservation? yes

a. If YES, describe the program and how it's organized.

The public information programs are organized into two segments. The Regional segment is handled by the Sonoma County Water Agency and includes general public information activities throughout the SCWA service area. The second segment involves public information programs at the local North Marin Water District Service area.

2. Indicate which and how many of the following activities are included in your public information program.

Public Information Program Activity	Yes/No	Number of Events
a. Paid Advertising	yes	15
b. Public Service Announcement	yes	10
c. Bill Inserts / Newsletters / Brochures	yes	3
d. Bill showing water usage in comparison to previous year's usage	yes	
e. Demonstration Gardens	yes	2
f. Special Events, Media Events	yes	10
g. Speaker's Bureau	yes	1
h. Program to coordinate with other government agencies, industry and public interest groups and media	yes	

**B. Conservation Information Program Expenditures**

	This Year	Next Year
1. Budgeted Expenditures	0	0
2. Actual Expenditures	0	

**C. "At Least As Effective As"**

1. Is your AGENCY implementing an "at least as effective as" variant of this BMP? No

a. If YES, please explain in detail how your implementation of this BMP differs from Exhibit 1 and why you consider it to be "at least as effective as."

**D. Comments**

C. Program Expenditures not shown since they are funded by water wholesaler (Sonoma County Water Agency)

**BMP 08: School Education Programs**

Reporting Unit:

**North Marin Water District**

BMP Form Status:

**100% Complete**

Year:

**2004****A. Implementation**

1. Has your agency implemented a school information program to promote water conservation? yes

2. Please provide information on your school programs (by grade level):

Grade	Are grade-appropriate materials distributed?	No. of class presentations	No. of students reached	No. of teachers' workshops
Grades K-3rd	yes	0	104	6
Grades 4th-6th	yes	8	261	6
Grades 7th-8th	yes	0	30	4
High School	yes	0	120	4

3. Did your Agency's materials meet state education framework requirements? yes

4. When did your Agency begin implementing this program? 09/01/1998

**B. School Education Program Expenditures**

	This Year	Next Year
1. Budgeted Expenditures	0	0
2. Actual Expenditures	0	

**C. "At Least As Effective As"**

1. Is your AGENCY implementing an "at least as effective as" variant of this BMP? No

a. If YES, please explain in detail how your implementation of this BMP differs from Exhibit 1 and why you consider it to be "at least as effective as."

**D. Comments**

**BMP 09: Conservation Programs for CII Accounts**

Reporting Unit:  
**North Marin Water  
 District**

BMP Form Status:  
**100% Complete**

Year:  
**2004**

**A. Implementation**

- |  |     |
|--|-----|
| 1. Has your agency identified and ranked COMMERCIAL customers according to use?    | yes |
| 2. Has your agency identified and ranked INDUSTRIAL customers according to use?    | yes |
| 3. Has your agency identified and ranked INSTITUTIONAL customers according to use? | yes |

---

**Option A: CII Water Use Survey and Customer Incentives Program**


---

- |   |     |
|---|-----|
| 4. Is your agency operating a CII water use survey and customer incentives program for the purpose of complying with BMP 9 under this option? | yes |
|---|-----|

CII Surveys	Commercial Accounts	Industrial Accounts	Institutional Accounts
a. Number of New Surveys Offered	100	0	0
b. Number of New Surveys Completed	62	0	0
c. Number of Site Follow-ups of Previous Surveys (within 1 yr)	0	0	0
d. Number of Phone Follow-ups of Previous Surveys (within 1 yr)	0	0	0
CII Survey Components	Commercial Accounts	Industrial Accounts	Institutional Accounts
e. Site Visit	yes	no	no
f. Evaluation of all water-using apparatus and processes	yes	no	no
g. Customer report identifying recommended efficiency measures, paybacks and agency incentives	yes	no	no
Agency CII Customer Incentives	Budget (\$/Year)	No. Awarded to Customers	Total \$ Amount Awarded
h. Rebates	0	0	0
i. Loans	0	0	0
j. Grants	0	0	0
k. Others	0	0	0

---

**Option B: CII Conservation Program Targets**


---

- |   |      |
|---|------|
| 5. Does your agency track CII program interventions and water savings for the purpose of complying with BMP 9 under this option?    | no   |
| 6. Does your agency document and maintain records on how savings were realized and the method of calculation for estimated savings? | no   |
| 7. Estimated annual savings (AF/yr) from site-verified actions taken by agency since 1991.  | 12.4 |
| 8. Estimated annual savings (AF/yr) from non-site-verified actions taken by agency since 1991.                                      | 3    |

## B. Conservation Program Expenditures for CII Accounts

	This Year	Next Year
1. Budgeted Expenditures	0	0
2. Actual Expenditures	0	

## C. "At Least As Effective As"

- |   |     |
|---|-----|
| 1. Is your AGENCY implementing an "at least as effective as" variant of this BMP? | yes |
|---|-----|

a. If YES, please explain in detail how your implementation of this BMP differs from Exhibit 1 and why you consider it to be "at least as effective as."

1) Green Business Program for Marin County: District offers commercial audits through the Marin County Green Business Program. 2) School and City outdoor audits (see BMP 5 3) Participation in the regional Pre-rinse nozzle replacement program for food facilities. 50 nozzles were replaced at facilities in the Novato service area with an audit accompanying installation.

## D. Comments

A) Audits were completed through the restaraunt pre-rinse hose nozzle installation program. B) Option B7 water savings was derived from toilet replacement programs.

**BMP 09a: CII ULFT Water Savings**

Reporting Unit:  
**North Marin Water  
 District**

BMP Form Status:  
**100% Complete**

Year:  
**2004**

1. Did your agency implement a CII ULFT replacement program in the reporting year? Yes  
 If No, please explain why on Line B.  
 10.

**A. Targeting and Marketing**

1. What basis does your agency use to target customers for participation in this program? Check all that apply. Consumption ranking

a. Describe which method you found to be the most effective overall, and which was the most effective per dollar expended.

Analysis has not been completed on marketing effectiveness.

2. How does your agency advertise this program? Direct letter  
Newsletter  
Web page  
 Check all that apply.

a. Describe which method you found to be the most effective overall, and which was the most effective per dollar expended.

Analysis has not been completed on marketing effectiveness.

**B. Implementation**

1. Does your agency keep and maintain customer participant information? (Read the Help information for a complete list of all the information for this BMP.) Yes
2. Would your agency be willing to share this information if the CUWCC did a study to evaluate the program on behalf of your agency? No
3. What is the total number of customer accounts participating in the program during the last year ? 12

**CII  
 Subsector**

**Number of Toilets Replaced**

4.	Standard Gravity Tank	Air Assisted	Valve Floor Mount	Valve Wall Mount	Type Not Specified
a. Offices	6	0	0	0	0
b. Retail / Wholesale	1	1	0	0	0
c. Hotels	0	0	0	0	0
d. Health	0	0	0	0	0
e. Industrial	0	0	0	0	0

f. Schools: K to 12	0	0	64	38	0
g. Eating	0	0	0	0	0
h. Govern- ment	0	0	0	0	0
i. Churches	0	0	0	0	0
j. Other	0	0	0	0	0

5. Program  
design.

Rebate or voucher

6. Does your agency use outside services to  
implement this program?

No

a. If yes, check all that  
apply.

7. Participant tracking and  
follow-up.

No follow-up  
Site Visit

8. Based on your program experience, please rank on a scale of 1 to  
5, with 1 being the least frequent cause and 5 being the most  
frequent cause, the following reasons why customers refused to  
participate in the program.

- |                                     |   |
|-------------------------------------|---|
| a. Disruption to business           | 3 |
| b. Inadequate payback               | 4 |
| c. Inadequate ULFT performance      | 2 |
| d. Lack of funding                  | 5 |
| e. American's with Disabilities Act | 1 |
| f. Permitting                       | 1 |
| g. Other. Please describe in B. 9.  | 0 |

9. Please describe general program acceptance/resistance by  
customers, obstacles to implementation, and other issues affecting  
program implementation or effectiveness.

The program is not widely accepted by the CII sector in  
the NMWD service area. Customers are resistant  
mainly due the financial issues or they have already  
completed the toilet upgrade. A rebate increase or  
development of a Direct Install program

10. Please provide a general assessment of the program for this  
reporting year. Did your program achieve its objectives? Were your  
targeting and marketing approaches effective? Were program costs  
in line with expectations and budgeting?

The CII Toilet Replacement Program was somewhat  
unsuccessful in regards to participation number. I think  
the incentive is too little to increase program  
participation. I don't think the marketing was effective,  
however, I felt that this program is a hard sell to  
businesses in any circumstance. Program costs were  
far below the budget/expectation.

## C. Conservation Program Expenditures for CII ULFT

1. CII ULFT Program: Annual Budget & Expenditure Data

Budgeted	Actual Expenditure
----------	-----------------------

a. Labor	0	0
b. Materials	0	0
c. Marketing & Advertising	0	0
d. Administration & Overhead	0	0
e. Outside Services	0	0
f. Total	0	0

2. CII ULFT Program: Annual Cost Sharing

a. Wholesale agency contribution	10000
b. State agency contribution	0
c. Federal agency contribution	0
d. Other contribution	0
e. Total	10000

**D. Comments**

1) Program expenditures not shown since they are funded by water wholesaler (Sonoma County Water Agency) 2) School Toilets: 64 were valve floor mounted toilets in bathrooms, and 38 were valve wall mounted urinals (there was no column for Urinals). Savings for these toilets was calculated and entered into BMP 9 under acre feet savings.



**BMP 11: Conservation Pricing**

Reporting Unit:  
**North Marin Water District**

BMP Form  
 Status:  
**100% Complete**

Year:  
**2004**

**A. Implementation**

**Rate Structure Data Volumetric Rates for Water Service by Customer Class**

**1. Residential**

a. Water Rate Structure	Increasing Block
b. Sewer Rate Structure	Service Not Provided
c. Total Revenue from Volumetric Rates	\$4957000
d. Total Revenue from Non-Volumetric Charges, Fees and other Revenue Sources	\$997000

**2. Commercial**

a. Water Rate Structure	Uniform
b. Sewer Rate Structure	Service Not Provided
c. Total Revenue from Volumetric Rates	\$741000
d. Total Revenue from Non-Volumetric Charges, Fees and other Revenue Sources	\$90000

**3. Industrial**

a. Water Rate Structure	Uniform
b. Sewer Rate Structure	Service Not Provided
c. Total Revenue from Volumetric Rates	\$0
d. Total Revenue from Non-Volumetric Charges, Fees and other Revenue Sources	\$0

**4. Institutional / Government**

a. Water Rate Structure	Uniform
b. Sewer Rate Structure	Service Not Provided
c. Total Revenue from Volumetric Rates	\$163000
d. Total Revenue from Non-Volumetric Charges, Fees and other Revenue Sources	\$14000

**5. Irrigation**

a. Water Rate Structure	Uniform
b. Sewer Rate Structure	Service Not Provided
c. Total Revenue from Volumetric Rates	\$667000
d. Total Revenue from Non-Volumetric Charges, Fees and other Revenue Sources	\$43000

**6. Other**

a. Water Rate Structure	Service Not Provided
b. Sewer Rate Structure	Service Not Provided
c. Total Revenue from Volumetric Rates	\$0
d. Total Revenue from Non-Volumetric	

Charges, Fees and other Revenue \$0  
Sources

**B. Conservation Pricing Program Expenditures**

	<b>This Year</b>	<b>Next Year</b>
1. Budgeted Expenditures	0	0
2. Actual Expenditures	0	

**C. "At Least As Effective As"**

1. Is your AGENCY implementing an "at least as effective as" variant of this BMP? No

a. If YES, please explain in detail how your implementation of this BMP differs from Exhibit 1 and why you consider it to be "at least as effective as."

**D. Comments**

## BMP 12: Conservation Coordinator

Reporting Unit: **North Marin Water District**      BMP Form Status: **100% Complete**      Year: **2004**

### A. Implementation

1. Does your Agency have a conservation coordinator? no
2. Is this a full-time position? no
3. If no, is the coordinator supplied by another agency with which you cooperate in a regional conservation program ? yes
4. Partner agency's name: Sonoma County Water Agency
5. If your agency supplies the conservation coordinator:
  - a. What percent is this conservation coordinator's position? %
  - b. Coordinator's Name
  - c. Coordinator's Title
  - d. Coordinator's Experience and Number of Years 7 years experience with multiple public water utilities
  - e. Date Coordinator's position was created (mm/dd/yyyy) 07/01/1999
6. Number of conservation staff, including Conservation Coordinator. 1

### B. Conservation Staff Program Expenditures

	This Year	Next Year
1. Budgeted Expenditures	0	0
2. Actual Expenditures	0	

### C. "At Least As Effective As"

1. Is your AGENCY implementing an "at least as effective as" variant of this BMP? no
  - a. If YES, please explain in detail how your implementation of this BMP differs from Exhibit 1 and why you consider it to be "at least as effective as."

### D. Comments

Program expenditures not shown since they are funded by water wholesaler (Sonoma County Water Agency)

**BMP 13: Water Waste Prohibition**

Reporting Unit:	BMP Form Status:	Year:
<b>North Marin Water District</b>	<b>100% Complete</b>	<b>2004</b>

**A. Requirements for Documenting BMP Implementation**

1. Is a water waste prohibition ordinance in effect in your service area? yes

a. If YES, describe the ordinance:

The District water waster ordinance is specified under the District Regulation 15 for the Novato Service area and Regulation 17 for the West Marin Service area. It contains water waste regulations most of which are listed below.

2. Is a copy of the most current ordinance(s) on file with CUWCC? yes

a. List local jurisdictions in your service area in the first text box and water waste ordinance citations in each jurisdiction in the second text box:

Novato and West Marin Service Areas	N/A
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**B. Implementation**

1. Indicate which of the water uses listed below are prohibited by your agency or service area.

a. Gutter flooding	yes
b. Single-pass cooling systems for new connections	yes
c. Non-recirculating systems in all new conveyor or car wash systems	yes
d. Non-recirculating systems in all new commercial laundry systems	yes
e. Non-recirculating systems in all new decorative fountains	yes
f. Other, please name non-recycling water fountains/ponds and washing vehicles without a shut off hose nozzle	yes

2. Describe measures that prohibit water uses listed above:

Regulation 15 specifies all listed actions above are prohibited in the District service areas.

**Water Softeners:**

3. Indicate which of the following measures your agency has supported in developing state law:

a. Allow the sale of more efficient, demand-initiated regenerating DIR models.	no
b. Develop minimum appliance efficiency standards that:	
i.) Increase the regeneration efficiency standard to at least 3,350 grains of hardness removed per pound of common salt used.	no
ii.) Implement an identified maximum number of gallons discharged per gallon of soft water produced.	no
c. Allow local agencies, including municipalities and special districts, to set more stringent standards and/or to ban on-site regeneration of water softeners if it is demonstrated and found by the agency governing board that there is an adverse effect on the reclaimed water or groundwater supply.	no

4. Does your agency include water softener checks in home water audit programs? yes
5. Does your agency include information about DIR and exchange-type water softeners in educational efforts to encourage replacement of less efficient timer models? no

### C. Water Waste Prohibition Program Expenditures

	This Year	Next Year
1. Budgeted Expenditures	0	0
2. Actual Expenditures	0	

### D. "At Least As Effective As"

1. Is your AGENCY implementing an "at least as effective as" variant of this BMP? no
- a. If YES, please explain in detail how your implementation of this BMP differs from Exhibit 1 and why you consider it to be "at least as effective as."

### E. Comments

**BMP 14: Residential ULFT Replacement Programs**

Reporting Unit:  
**North Marin Water District**

BMP Form Status:  
**100% Complete**

Year:  
**2004**

**A. Implementation**

	Single-Family Accounts	Multi-Family Units
1. Does your Agency have program(s) for replacing high-water-using toilets with ultra-low flush toilets?	yes	yes
<b>Number of Toilets Replaced by Agency Program During Report Year</b>		
<b>Replacement Method</b>	<b>SF Accounts</b>	<b>MF Units</b>
2. Rebate	926	10
3. Direct Install	0	0
4. CBO Distribution	0	0
5. Other	0	0
<b>Total</b>	<b>926</b>	<b>10</b>

6. Describe your agency's ULFT program for single-family residences.

Single-Family residences are rebated \$75 per toilet when the customer changes all older (Non-1.6 gpf) toilets in the household. A pre-inspection is required and the older toilets must be recycled at the District (Toilets are processed into road base). Rebates are funded through Sonoma County Water Agency

7. Describe your agency's ULFT program for multi-family residences.

Multi-Family residences are rebated \$75 per toilet when the customer changes all older (Non-1.6 gpf) toilets in the household. A pre-inspection is required and the older toilets must be recycled at the District (Toilets are processed into road base). Rebates are funded through Sonoma County Water Agency

8. Is a toilet retrofit on resale ordinance in effect for your service area? yes

9. List local jurisdictions in your service area in the left box and ordinance citations in each jurisdiction in the right box:

n/a

n/a

**B. Residential ULFT Program Expenditures**

	This Year	Next Year
1. Budgeted Expenditures	0	0
2. Actual Expenditures	0	

**C. "At Least As Effective As"**

1. Is your AGENCY implementing an "at least as effective as" variant of this BMP? no

a. If YES, please explain in detail how your implementation of this BMP differs from Exhibit 1 and why you consider it to be "at least as effective as."

**D. Comments**

Program expenditures not shown since they are funded by water wholesaler (Sonoma County Water Agency)

## BMP 01 Coverage: Water Survey Programs for Single-Family and Multi-Family Residential Customers

Reporting Unit:  
North Marin Water District

Reporting Period:  
03-04

### MOU Exhibit 1 Coverage Requirement

No exemption request filed

Agency indicated "at least as effective as" implementation during report period?

Yes

A Reporting Unit (RU) must meet three conditions to satisfy strict compliance for BMP 1.

Condition 1: Adopt survey targeting and marketing strategy on time

Condition 2: Offer surveys to 20% of SF accounts and 20% of MF units during report period

Condition 3: Be on track to survey 15% of SF accounts and 15% of MF units within 10 years of implementation start date.

### Test for Condition 1

North Marin Water District to Implement Targeting/Marketing Program by:	2003		
		<u>Single-Family</u>	<u>Multi-Family</u>
Year North Marin Water District Reported Implementing Targeting/Marketing Program:	1999		1999
North Marin Water District Met Targeting/Marketing Coverage Requirement:	YES		YES

### Test for Condition 2

			<u>Single-Family</u>	<u>Multi-Family</u>
Survey Program to Start by:	2002	Residential Survey Offers (%)	185.12%	60.77%
Reporting Period:	03-04	Survey Offers $\geq$ 20%	YES	YES

### Test for Condition 3

		Completed Residential Surveys	
		<u>Single Family</u>	<u>Multi-Family</u>
Total Completed Surveys 1999 - 2004:		1,775	272
Past Credit for Surveys Completed Prior to 1999 (Implementation of Reporting Database):			

Total + Credit	1,775	272
Residential Accounts in Base Year	17,286	3,538
North Marin Water District Survey Coverage as % of Base Year Residential Accounts	10.27%	7.69%
Coverage Requirement by Year 3 of Implementation per Exhibit 1	2.50%	2.50%
North Marin Water District on Schedule to Meet 10- Year Coverage Requirement	YES	YES

**BMP 1 COVERAGE STATUS SUMMARY:**

**Water supplier is meeting coverage requirements for this BMP.**